

IN THE CLAIMS:

Please amend the claims so as to read as follows:

1. (Cancelled, without prejudice)

2. (Cancelled, without prejudice)

3. (Cancelled, without prejudice)

4. (Cancelled, without prejudice)

5. (Cancelled, without prejudice)

6. (Cancelled, without prejudice)

7. (Cancelled, without prejudice)

8. (Cancelled, without prejudice)

9. (Cancelled, without prejudice)

10. (Cancelled, without prejudice)

11. (Cancelled, without prejudice)

12. (Cancelled, without prejudice)

13. (Cancelled, without prejudice)

14. (Cancelled, without prejudice)

15. (Cancelled, without prejudice)

16. (Cancelled, without prejudice)

17. (Cancelled, without prejudice)

18. (Cancelled, without prejudice)

19. (Cancelled, without prejudice)

20. (Cancelled, without prejudice)

21. (Cancelled, without prejudice)

22. (Cancelled, without prejudice)

23. (Cancelled, without prejudice)

24. (Cancelled, without prejudice)

25. (Cancelled, without prejudice)

26. (Cancelled, without prejudice)

27. (Cancelled, without prejudice)

28. (Cancelled, without prejudice)

29. (Cancelled, without prejudice)

30. (Cancelled, without prejudice)

31. (Cancelled, without prejudice)

32. (Cancelled, without prejudice)

33. (Cancelled, without prejudice)

34. (Original) An optical disc reproducing device reproducing an optical disc having pits of at least two different depths formed therein, comprising:

- a photoreceptor element detecting a light beam reflected from said optical disc;
- a pit depth detecting unit detecting depth of the pit formed on said optical disc based on the quantity of the reflected light beam detected by said photoreceptor element;
- a servo signal generating unit generating a tracking servo signal based on the quantity of the reflected light beam detected by said photoreceptor element; and
- a polarity inverting unit inverting polarity of the tracking servo signal generated by said servo signal generating unit based on the result of detection by said pit depth detecting unit.

35. (Original) The optical disc reproducing device according to claim 34, wherein

said pit depth detecting unit detects depth of the pit formed in said optical disc based on a signal indicative of a difference in intensity distribution of the reflected light beam along a tangential direction of a pit string on said optical disc.

36. (Original) The optical disc reproducing device according to claim 34,
wherein

said pit depth detecting unit includes a first detecting unit
detecting a first signal based on the quantity of
reflected light beam from said optical disc;
a second detecting unit detecting a second signal indicative
of the difference in intensity distribution of the
reflected light beam along the tangential direction of
the pit string on said optical disc, and
a third detecting unit detecting the depth of the pit formed
in said optical disc based on the first signal detected
by said first detecting unit and the second signal
detected by said second detecting unit.

37. (Original) The optical disc reproducing device according to claim 36,
wherein

said third detecting unit includes a first comparing circuit
comparing the second signal detected by said second
detecting unit with a first reference value,
a second comparing circuit comparing the second signal
detected by said second detecting unit with a second
reference value, and
a flip-flop circuit holding the result of comparison by said
first comparing circuit and the result of comparison
by said second comparing circuit, at a point of
transition of the first signal output from said first
detecting unit.

38. (Original) The optical disc reproducing device according to claim 34,
wherein

said servo signal generating unit generates the tracking servo
signal by detecting phase difference of the quantity of reflected
light beam detected by said photoreceptor element.

39. (Original) The optical disc reproducing device according to claim 34,
wherein

said servo signal generating unit generates the tracking servo
signal by detecting difference in intensity of the reflected
light beam on an inner peripheral side and on an outer
peripheral side of the optical disc detected by said
photoreceptor element.

40. (Original) The optical disc reproducing device according to claim 34,
wherein

said photoreceptor element is divided into four along a tangential
direction of the pit string and along the radial direction of
said optical disc.

41. (Original) The optical disc reproducing device according to claim 34,
wherein

said photoreceptor element includes a first element and a second
element divided along the radial direction of said optical
disc,

said first element includes a third element and a fourth element
divided along the radial direction of said optical disc, and
said second element includes a fifth element and a sixth element
divided along the tangential direction of the pit string.